Crastin® LW9630 BK851

THERMOPLASTIC POLYESTER RESIN

Common features of Crastin® thermoplastic polyester resin include mechanical and physical properties such as stiffness and toughness, heat resistance, friction and wear resistance, excellent surface finishes and good colourability. Crastin® thermoplastic polyester resin has excellent electrical insulation characteristics and high arc-resistant grades are available. Many flame retardant grades have UL recognition (class V-0). Crastin® thermoplastic polyester resin typically has high chemical and heat ageing resistance.

The good melt stability of Crastin® thermoplastic polyester resin normally enables the recycling of properly handled production waste.
If recycling is not possible, we recommend, as the preferred option, incineration with energy recovery (-24 kJ/g of base polymer) in appropriately equipped installations. For disposal, local regulations have to be observed.

Crastin® thermoplastic polyester resin typically is used in demanding applications in the electronics, electrical, automotive, mechanical engineering, chemical, domestic appliances and sporting goods industry.

Crastin® LW9630 BK851 is a 30% glass fiber reinforced polybutylene terephthalate blend for injection molding. It has improved surface aesthetics, excellent dimensional stability and low warpage characteristics.

Product information

Resin Identification	(PBT+SAN+PET)-GF30	ISO 1043
Part Marking Code	>(PBT+SAN+PET)-GF30<	ISO 11469

Rheological properties

Melt mass-flow rate	9.6	g/10min	ISO 1133
Melt mass-flow rate, Temperature	500	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage range, parallel	0.2 - 0.3	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.4 - 0.6	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	1.6E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	22500	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2	%	ISO 527-1/-2
Flexural modulus	1.44E6	psi	ISO 178
Flexural strength	29000	psi	ISO 178
Charpy impact strength, 23°C	21.4	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	4.52	ftlb/in²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	428	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	347	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.12	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.478[1]	E-4/°F	ISO 11359-1/-2

[1]: -40 ~ 100C

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Physical/Other properties

Density	0.0523	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	248	°F
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.02	%
Melt Temperature Optimum	500	°F
Min. melt temperature	482	°F
Max. melt temperature	527	°F
Mold Temperature Optimum	230	°F
Min. mold temperature	194	°F
Max. mold temperature	266	°F
Hold pressure time	0.0762	s/mil
Back pressure	as low as possible	psi
Ejection temperature	338	°F

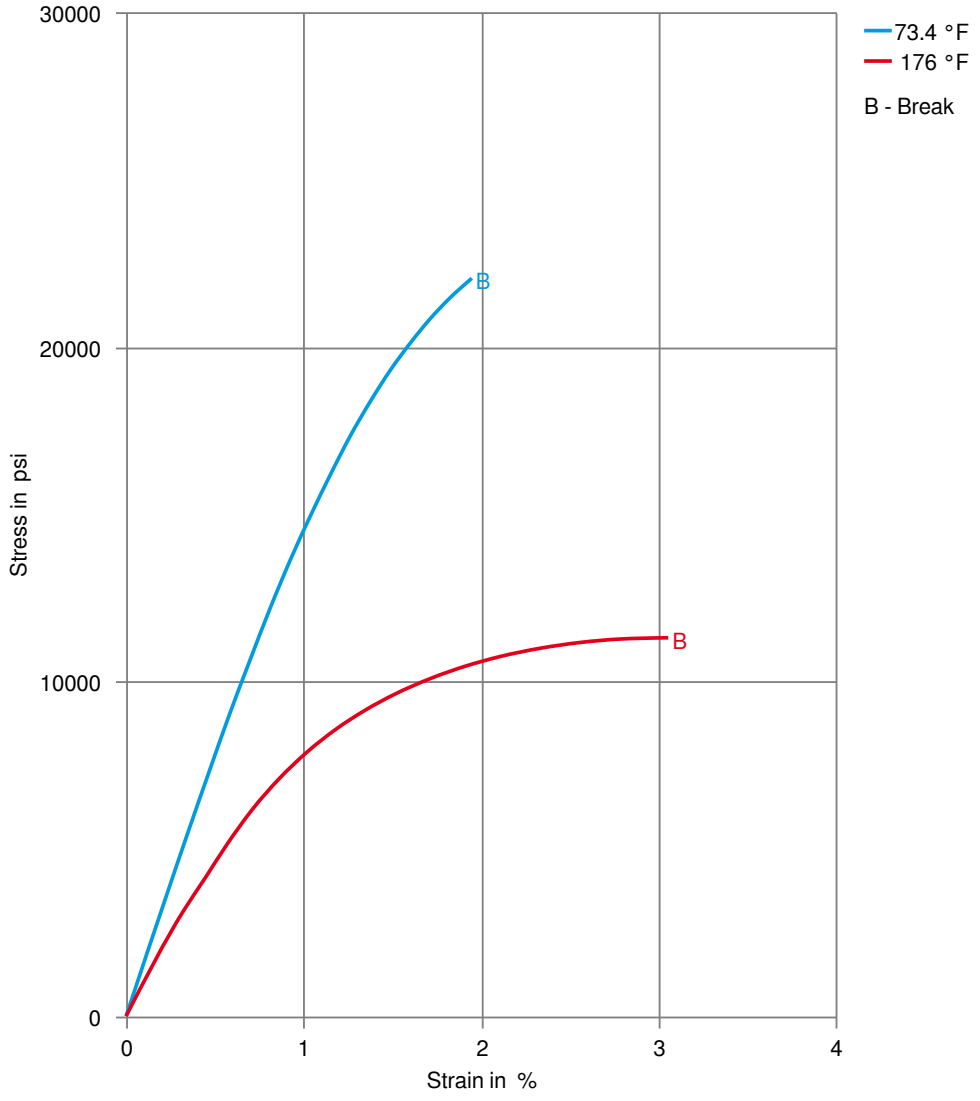
Characteristics

Processing	Injection Molding
Special characteristics	Low Warpage

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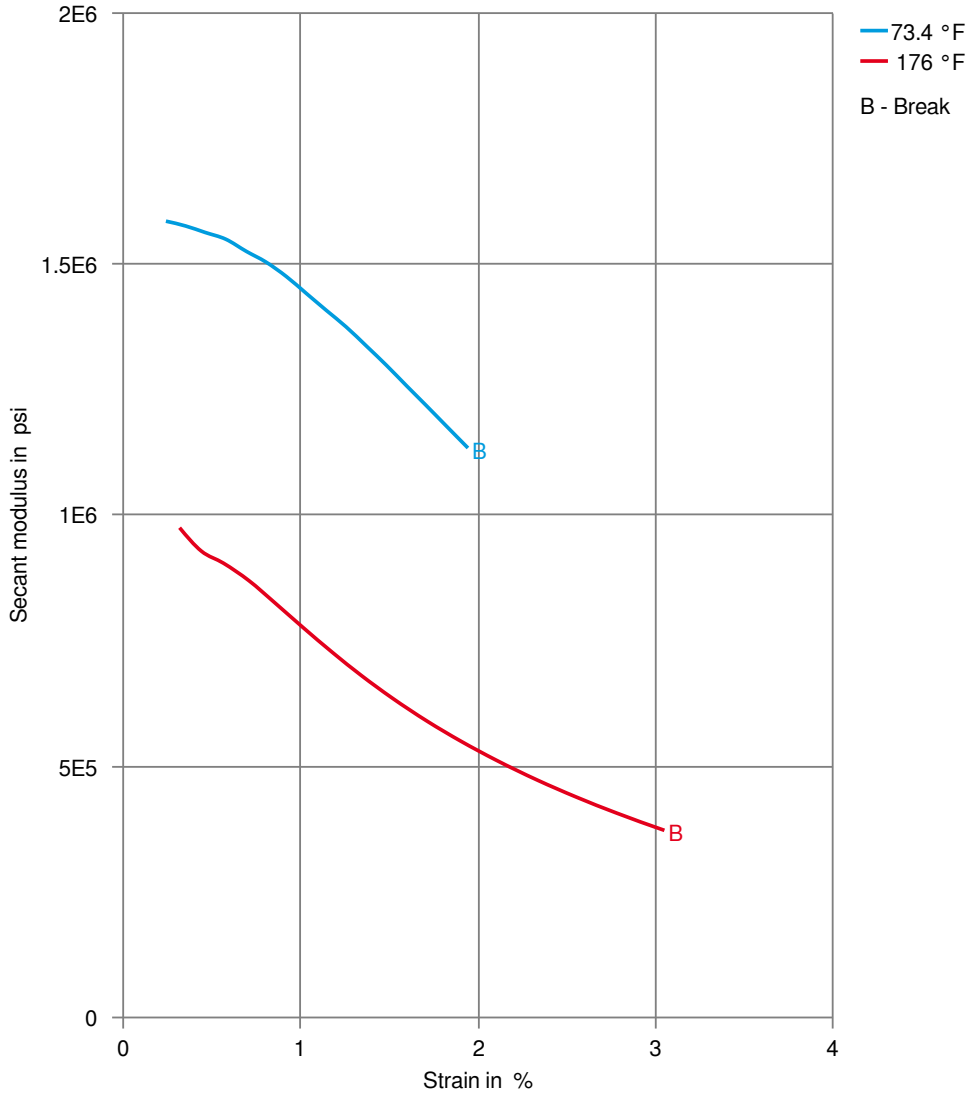
Stress-strain



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Secant modulus-strain



Revised: 2026-06-19 Source: Celanese Materials Database

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